

10/12/95-01000

## RESTORATION ADVISORY BOARD MEETING

OCTOBER 12, 1995

7:00	Introduction/Welcome	Ruth Reich COMNAVBASE - Public Affairs
7:10	CD Landfill Update	Jeri Trageser - Baker Environmental, Inc.
7:30	Questions	
7:40	Q-Area Drum Storage Yard Update	Dave Forsythe - LANTNAVFACENGCOM
7:50	Questions	
8:00	Break	
8:15	General Update - Building LP-20 - Camp Allen Landfill	Gordon Ruggaber - Baker Environmental, Inc. Dianne Bailey - Navy Co-chair
8:25	Questions	
8:35	Administrative Issues	Dianne Bailey - Navy Co-chair Jack Ruffin - Community Co-chair
8:45	Questions/Comments Session	RAB Members

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Public Affairs Office  
NAVFAC Atlantic  
6506 Hampton Blvd.  
Norfolk, VA 23508-1278

757-322-8005  
[NFECL\\_PAO@navy.mil](mailto:NFECL_PAO@navy.mil)

10/12/95 - 01000

**ENCLOSURE 1**

**RESTORATION ADVISORY BOARD MEETING MINUTES**

**October 12, 1995**

Commander Naval Base (COMNAVBASE) Norfolk, conducted a Restoration Advisory Board (RAB) meeting on October 12, 1995, at the Navy Lodge on Hampton Boulevard. The meeting commenced at 7:05 p.m. with the following people in attendance.

**RAB ATTENDEES:**

Dianne Bailey, Navy Co-Chair	COMNAVBASE Norfolk Environmental Programs Department
Jack Ruffin, Community Co-Chair	Chesapeake Bay Foundation
Dave Forsythe, P.E.	Naval Facilities Engineering Command, Atlantic Division (LANTDIV)
Ruth Reich	COMNAVBASE Public Affairs Office
Dinesh Vithani	Virginia Department of Environmental Quality
Robert Thomson, P.E.	US Environmental Protection Agency
Nathaniel Riggins	Titustown Civic League
Stephen Dembkowski	Glenwood Park Civic Center
Dr. Raymond Alden	Old Dominion University

**PRESENTERS:**

Gordon Ruggaber, P.E.	Naval Base Norfolk Activity Coordinator
Jeri Trageser, P.G.	Project Manager, CD Landfill
Dave Forsythe, P.E.	Remedial Project Manager/Navy Technical Representative

**GENERAL PUBLIC:**

Sandy Horvack	NADEP employee
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**NOT IN ATTENDANCE:**

Robert Vazquez	National Oceanic & Atmospheric Administration (NOAA)
Peggy Menzies	Willoughby Civic League
Marjorie Mayfield	Elizabeth River Project
Carol Ann Greenwood	Tidewater Community College
Bertram Myers	Algonquin Park Civic League
Karen Gates	Suburban Acres Civic League
Karen Gulley	Norfolk Health Department

**RAB PRESENTATION SUMMARY:**

The meeting was called to order at 7:05 p.m. by Ms. Ruth Reich who provided an introduction of the first presenter, Ms. Jeri Trageser of Baker Environmental, Inc.

## RESTORATION ADVISORY BOARD MEETING MINUTES (continued)

### CD Landfill Presentation

RAB members were given the opportunity to review the Draft Final Remedial Investigation Report during July and August 1995. The presentation summarized the study's findings, including:

- Results indicate that there is no current risk to human health caused by the landfill. There is a risk to future residents from groundwater ingestion. However, since the shallow groundwater is not being used as a drinking water source as stipulated in a City of Norfolk ordinance, an exposure pathway for groundwater ingestion is not completed.
- The feasibility study (FS) is being developed to look at two objectives: 1) prevent exposure to subsurface soils; and, 2) prevent future use of shallow and deep groundwater.
- Alternatives for remedial action for both soils and groundwater (including surface water and sediment), include; no action, and institutional controls (maintenance of existing fencing, land use restrictions, public education, monitoring). A capping alternative will be reviewed to determine effectiveness in meeting the objectives. In addition, slope stabilization actions will be evaluated to minimize erosion into the drainage ditch on the southeastern portion of the landfill. Limited sediment removal actions may also be developed in the FS based on the results of the ecological risk assessment which is currently being revised based on regulatory comments.

### Questions:

1. *Incinerator ash was reported to be disposed in the landfill. Were samples analyzed for dioxin?*

Since no records were available to determine quantities, and because the main focus of the original scope of work was to evaluate metals contamination, dioxins were not analyzed during this investigation. Initially, the incinerator was used for trash incineration, but only for fuel burning in later years.

2. *Was the western portion the only permitted part of the landfill?*

Yes, the western part of the landfill was permitted by the Virginia Department of Health. The VDEQ Solid Waste branch agreed to waive enforcing closure requirements since the entire landfill would be investigated as an Installation Restoration Program (IRP) site.

3. *Is a Remedial Action required to be implemented within 15 months?*

NAVBASE is not on the National Priorities List (NPL); therefore, there is no time limit.

### Q-Area Drum Storage Yard Presentation

Dave Forsythe provided a brief discussion on current status of the Q-Area investigation and remedial design. The investigation contractor, ESE, is working to finalize the risk assessment. Preliminary data



## RESTORATION ADVISORY BOARD MEETING MINUTES (continued)

indicates that there is no current human health risk. However, there is a risk to future construction workers from groundwater. The ecological risk assessment findings indicate that there is no groundwater risk. However, metals in site soils present a potential risk to ecological receptors. An evaluation is currently being conducted to determine if the metals found in the site soils are indicative of dredge fill areas, as the land in the northern part of the base was built out from the original shoreline using dredged fill materials. In addition, since the metals are not constituents of the types of products stored on site, they may not be site-related.

To recap the last RAB meeting discussion, Dave reviewed the results of the pilot study conducted in May. The cleanup technology to be employed at the site will include air sparging and soil vapor extraction to eliminate the solvent plume.

*1. Wasn't there a petroleum concern discussed at the last meeting?*

Yes, however, the Navy talked to VDEQ concerning state petroleum cleanup levels, and they suggested performing a risk assessment on the total petroleum hydrocarbons (TPH) using some indicator compound, such as naphthalene. Based on the risk assessment, there is no unacceptable risk associated with the petroleum-contaminated soils.

*2. Isn't the plume going toward the river?*

The oil/petroleum is not moving; the concern is solvent contamination which will be addressed by the air sparging/soil vapor extraction.

### **Building LP-20 Site Presentation**

Gordon Ruggaber, Senior Engineer and new Baker Activity Coordinator for NAVBASE, presented a brief overview of the Building LP-20 Site Remedial Investigation, including:

- Many shallow wells have been installed during previous investigations in the vicinity of the site; mostly as part of the UST Program.
- The remedial investigation determined that there was not sufficient groundwater data in the Yorktown Aquifer to delineate a contaminant plume. Therefore, in September 1995, six additional deep wells were installed and sampled. Five wells were set at between 70 and 80 feet below ground surface to be consistent with the three wells installed as part of the original investigation. One deep well was installed to a depth of 114 feet to characterize the groundwater deeper in the aquifer.
- Results, scheduled to be submitted by the laboratory at the end of this week, will be included in the Draft Final RI Report.
- A Feasibility Study is being prepared to look at alternatives for cleanup.
- Both the Draft Final RI Report and the Draft Final FS Report are expected to be submitted for

## RESTORATION ADVISORY BOARD MEETING MINUTES (continued)

Navy, regulatory, and RAB review by December 1, 1995.

1. *Why is the deep aquifer named Yorktown?*

Each portion of the subsurface is "named" for identification purposes. A geologist (probably working for the U.S. Geological Survey) named the groundwater aquifer "Yorktown" which is part of the subsurface soil formation, also named "Yorktown". The upper aquifer in the vicinity of the base is referred to as the water table aquifer, shallow aquifer or Columbia Aquifer.

2. *What contaminants have been found at the site?*

Solvents (primarily TCE), used in de-greasing operations, have been found at the site. Fuel-related compounds (such as benzene, toluene, ethylbenzene, xylene), which are lighter than water, are present in the water table aquifer.

It should be noted that TCE and fuel-related compounds are the most prevalent contaminants not only at this site, but at most sites across the country. These compounds are not found only at DOD sites, but at industrial and private-sector sites as well.

3. *Has a study been conducted of stormwater flow to Willoughby Bay? Is there an ecological risk?*

The Bousch Creek culvert was not sampled during this investigation. However, the UST Program has installed wells on either side of the culvert. Several recovery systems are in place.

Jim Harris, who could not attend the RAB meeting, is the project manager for the LP-20 Site. Several outfalls are routinely sampled as part of the base's NPDES permit. If the culvert should present potential ecological concerns in the future based on ongoing Bousch Creek sampling, then the Navy will address them.

### Administrative Issues

Dianne Bailey discussed administrative issues as follows:

1. There will be a special RAB meeting, for those interested in attending, which will be conducted on Thursday, November 16, 1995. The base is asking for community involvement in reviewing new hazardous waste technologies. Winoma Johnson from COMNAVBASE and LANTDIV representatives will be conducting the meeting.
2. RAB Members Review Schedule
  - Q-Area Drum Storage Yard Revised RI/FS - due to RAB members on 11/1/95, comments due 12/15/95

## **RESTORATION ADVISORY BOARD MEETING MINUTES (continued)**

- CD Landfill Draft Final FS - due to RAB members on 11/1/95, comments due 1/15/96
  - LP-20 Draft Final RI/FS - due to RAB members on 12/1/95, comments due 2/1/96
3. Next RAB meeting will be conducted in late January. Notification of the tentative date will be sent out with the RAB meeting minutes.

Ruth Reich provided her phone number (322-2859) and closed the meeting at approximately 8:30 p.m.



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**CD LANDFILL  
REMEDIAL INVESTIGATION/  
FEASIBILITY STUDY  
NAVAL BASE, NORFOLK, VIRGINIA**

**OCTOBER 12, 1995**

**CD LANDFILL, BACKGROUND**



- Formerly low area of Bousch Creek drainage system
- Landfill from 1974 - 1979 (east portion)
- Landfill from 1979 - 1987 (west portion)
- Received flyash, blasting grit, solid wastes/construction debris, chemicals, asbestos



## CD LANDFILL, REMEDIAL INVESTIGATION



- Sampling Program
  - ▶ Surface Water/Sediments
  - ▶ Shallow and Deep Soils
  - ▶ Shallow and Deep Groundwater
- Analytical Program
  - ▶ Organic Compounds
  - ▶ Metals
  - ▶ Other Parameters (asbestos, herbicides, radionuclides)
  - ▶ Water Quality Parameters

## CD LANDFILL, RISK ASSESSMENT RESULTS



- No Current Risk
- Future Risk
  - ▶ Some risk based on assumption of future residential use
  - ▶ To be addressed by Remedial Action

## CD LANDFILL, FEASIBILITY STUDY

### *REMEDIAL ACTION ALTERNATIVES - (Soil)*

- No action
- Institutional Controls - (fencing, land use restrictions, public education, monitoring)
- Capping (to be resolved w/regulators/described in the FS).

### *REMEDIAL ACTION ALTERNATIVES - (Groundwater)*

- No action
- Institutional Controls (includes monitoring of groundwater and surface water/sediments)

*Dioxins? in Future Sampling?*


## CD LANDFILL, SCHEDULE OF WORK

- Submittal of Final RI Report - October 25, 1995
- Submittal of Draft Final FS Report - November 1, 1995
- Submittal of Proposed Remedial Action Plan (PRAP) - March 1996
- Public Meeting
- Submittal of Decision Document - June 1996
- Implementation of Remedial Action

FAX/MEMOPages: 1

Date: 25 October 95

To: Dave Forsythe, LANTDIV - Code 18224, Fax # 322-4805

From: Dianne Bailey, COMNAVBASE, Fax # 444-3000, Phone # 444-3009 

Subj: COMMENTS ON RAB MINUTES/IR BRIEF

Dave-

1. Can you review the RAB minutes and tell me or Jeri or Gordon of any changes you see that we need? Winoma is trying to get our "Special Mtg" letter out in the next few days and we want to add the RAB minutes as an enclosure.
2. I also need some information for my brief to the Admiral on Tuesday, 10/31. I need the amount of money we spent on IR DERA cleanups/studies for FY94, FY95 and anticipated money for FY96.

Thanks!!

Dianne

**Baker**

Baker Environmental, Inc.  
420 Rouser Road  
Airport Office Park Bldg. 3  
Coraopolis, PA 15108  
Telephone: (412) 269-6000  
Fax: (412) 269-2002

# Letter of Transmittal

To: COMNAVBASE, Environmental Programs  
1530 Gilbert Street, Suite 200  
Norfolk, VA 23511-2699

S.O. No. 62470-290-SRN  
Project: RAB Meeting Minutes  
Date: October 30, 1995

Attn: Ms. Winoma Johnson, Code N-42A

We are forwarding the following: ☒ Attached ☐ Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Enclosure 1 - RAB Meeting Minutes	

THESE ARE TRANSMITTED as checked below:

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> As requested | <input type="checkbox"/> No exceptions taken                  | <input type="checkbox"/> Revise and resubmit    |
| <input type="checkbox"/> For review and comment  | <input type="checkbox"/> Rejected - See remarks               | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information    | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____                  |

## GENERAL COMMENTS:

cc: Mr. David M. Forsythe, P.E., Code 18224  
(w/o attachment)

## BAKER ENVIRONMENTAL, INC.

By: Jeri Trageser, P.G.

Title: Project Manager

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